

Title (en)
INJECTION MOULDING PROCESS USING POLYMER BLENDS CONTAINING HIGH MOLECULAR POLYETHYLENE OF HIGH DENSITY.

Title (de)
POLYMERMISCHUNGEN VERWENDENDEN SPRITZGIESSVERFAHREN MIT HOCHMOLEKULAREM POLYÄTHYLEN HOHER DICHT.

Title (fr)
PROCEDE DE MOULAGE PAR INJECTION UTILISANT DES MELANGES POLYMERES CONTENANT DU POLYETHYLENE DE POIDS MOLECULAIRE ELEVE DE HAUTE DENSITE.

Publication
EP 0020514 A1 19810107 (EN)

Application
EP 79901375 A 19800507

Priority
SE 7810977 A 19781020

Abstract (en)
[origin: WO8000813A1] Process for producing injection moulded parts having markedly improved mechanical strength properties wherein a blend of high molecular polyethylene having high density with a matrix material which consists of a polymeric material with which the high molecular polyethylene has a limited compatibility is injection moulded at high injection moulding pressures exceeding 250 MPa, whereby a fibre reinforced injection moulded article having improved mechanical properties is produced.

Abstract (fr)
Un procede de production de pieces moulees par injection ayant des proprietes de resistance mecanique sensiblement ameliorees consiste a melanger du polyethylene de poids moleculaire eleve ayant une haute densite avec un materiau matriciel qui consiste en un materiau polymere avec lequel le polyethylene de poids moleculaire eleve possede une compatibilite et a mouler ce melange par injection a des pressions de moulage elevees depassant 250 MPa, permettant de produire un article moule par injection renforce par des fibres et ayant des proprietes mecaniques ameliorees.

IPC 1-7
B29F 1/00

IPC 8 full level
B29C 45/00 (2006.01); **B29C 45/77** (2006.01); **B29C 45/78** (2006.01); **B29C 45/57** (2006.01); **B29K 23/00** (2006.01); **B29K 105/06** (2006.01)

CPC (source: EP US)
B29C 45/0001 (2013.01 - EP US); **B29C 45/57** (2013.01 - EP US); **B29K 2023/0683** (2013.01 - EP US)

Designated contracting state (EPC)
AT CH DE FR GB LU NL

DOCDB simple family (publication)
WO 8000813 A1 19800501; DK 265280 A 19800620; EP 0020514 A1 19810107; FI 793252 A 19800421; IT 1125528 B 19860514; IT 7926660 A0 19791019; JP S55500831 A 19801023; NO 793361 L 19800422; SE 7810977 L 19800421; US 4349504 A 19820914

DOCDB simple family (application)
SE 7900210 W 19791019; DK 265280 A 19800620; EP 79901375 A 19800507; FI 793252 A 19791019; IT 2666079 A 19791019; JP 50176379 A 19791019; NO 793361 A 19791018; SE 7810977 A 19781020; US 19951580 A 19800620